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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/849,745	05/04/2001	George W. Cone	12749US02	2633
7590 08/01/2005			EXAMINER	
JOHN JOHNNIDIS, ESQ.			AWAD, AMR A	
eMAGIN CORPORATION 2070 RT. 52, BLDG. 334 HOPEWELL JUNCTION, NEW YORK, NY 12533			ART UNIT	PAPER NUMBER
			2675	
			DATE MAILED: 08/01/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/849,745	CONE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Amr Awad	2675				
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) day of the period for reply is specified above, the maximum statutory failure to reply within the set or extended period for reply will, be any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	CION.  CFR 1.136(a). In no event, however, may a tion.  s, a reply within the statutory minimum of thin, y period will apply and will expire SIX (6) MON by statute, cause the application to become Al	reply be timely filed  ty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed or	n <u>21 March 2005</u> .					
2a)⊠ This action is <b>FINAL</b> . 2b)□	This action is non-final.					
3) Since this application is in condition for a closed in accordance with the practice u	·	• •				
Disposition of Claims						
<u> </u>	ing in the application					
•	✓ Claim(s) 1.3.5-18 and 20-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) 10 and 20-24 is/are allowed.	iciaratii iroiii oorioideratiori.					
6)⊠ Claim(s) <u>1,3,5-9 and 11-18</u> is/are rejecte	ed.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction	and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Ex	aminer.					
10) The drawing(s) filed on is/are: a)	☐ accepted or b)☐ objected to	by the Examiner.				
Applicant may not request that any objection	•					
Replacement drawing sheet(s) including the	correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by	the Examiner. Note the attache	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) ☐ Acknowledgment is made of a claim for f</li> <li>a) ☐ All b) ☐ Some * c) ☐ None of:</li> <li>1. ☐ Certified copies of the priority doc</li> </ul>		§ 119(a)-(d) or (f).				
2. Certified copies of the priority doc		Application No.				
3. Copies of the certified copies of the		· · · · · · · · · · · · · · · · · · ·				
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* See the attached detailed Office action for		received.				
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Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
<ul> <li>2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-9</li> <li>3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO)</li> </ul>		s)/Mail Date nformal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

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#### **DETAILED ACTION**

#### Information Disclosure Statement

1. The references cited in the information disclosure statement received August 29, 2001 have been considered by the Examiner; see attached PTO-1449.

## Claim Objections

2. Claim1 objected to because of the following informalities: in line 3 of claim 1, the "," after second should be deleted. Appropriate correction is required.

Claims 18 and 20 are objected to because of the following informalities: in line 3 of claim 18 and line 4 of claim 20, "the" before "switch" should be replaced with –a--.

Appropriate correction is required.

#### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 1, 3, 5-8, 11-13, 15 and 17 are rejected under 35 U.S.C. 102(a) as being anticipated by Jacobsen et al. (US patent NO. 6,073,034; hereinafter referred to as Jacobsen).

As to independent claim 1, Jacobson (figures 5A-5C, 8A-8E and 9J) teaches a portable communication device (telephone 222 in figure 8A or 280 in figure 9J) with a

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virtual image display (240 in figure 8B), comprising: a hand held frame having a first end (224) and a second opposite end (226); an earphone speaker (230) for projecting sound mounted in the first end of the frame; and a virtual image display system (238) including a display (240) and at least one optic (shown in figures 5A-5C representing the inside structure of the micro display described throughout the invention; see col. 9, line 62 through col. 10, line 3) through which a user looks to view an enlarged virtual image of information depicted on the display (col. 12, lines 47-67), the virtual image display system being mounted in the second end (226) of the frame wherein both of the earphone speaker (230) and the virtual image display system are mounted on the frame for movement to increase the distance between the earphone speaker and the optic through which the user looks to view the image when the device is in use (in Jacobson's device the display moves in closer to the speaker 230 or out away from the speaker; and wherein, and also in another embodiment in figure 9J, wherein both the speaker section and the image display are moving relative to the frame 286) (col. 12, lines 59-67, and line 13, 52-59).

As to independent claim 11, the claim is substantially similar to independent claim 1 except that claim 11 recites that the virtual image display module being mounted on the second end of the frame for pivot movement between in-use position and a storage position in which the optic is covered by the back wall of the frame. As can be seen in figures 8A and 8B, Jacobson shows the in use position (figure 8A) and a storage position (figure 8B) in which optic is covered by the back wall of the frame (226) by pivoting the 226 portion of the frame (col. 12, lines 55-67).

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As to independent claim 16, the claim is substantially similar to claim 1 except that claim 16 recites having a first aperture in the first end of in the first end and second aperture in a second opposite end, and wherein the earphone mounted on the frame in the first aperture for slidable movement between first and second earphone position, and the image display mounted on the frame in the second aperture for pivot movement between the first and second positions, and linkage connected between the virtual image display and the earphone. Considering figure 9J or 10A, and by assuming aperture as an opening, such as a hole, gap, or slit (Microsoft Bookshelf Basics Dictionary); Jacobson shows that the earphone moves into a gap (top of the keypad) between first and second position, and the display is also moving between two position into a gap, and a linkage (286) connecting the display and the earphone together (col. 13, lines 52-59).

As to claim 3, Jacobson (figure 9J) shows that the earphone speaker is mounted on the frame for sliding movement (col. 13, lines 52-59).

As to claim 5, Jacobson shows that the virtual image display system is mounted for pivotal movement on the frame (figure 9J).

As to claim 6, Jacobson shows that both the virtual image display system and the earphone speaker are mounted for movement on the frame (figure 9J).

As to claim 7, using the broadest reasonable interpretation of the claim,

Jacobson (figures 8A-8B or 9J) fairly reads on the claimed limitation because moving
the section 226 from the position in figure 8A to the position in figure 8B requires the
movement of the section 224 through the pivot connecting the two section. Since the

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section 224 includes the speaker 230; then the speaker also moves when the display moves.

As to claim 8, Jacobson (figure 9J) shows both the speaker and the image display moving.

As to claim 12, as can be seen in figures 9J, Jacobson shows that the earphone speaker is movably mounted in the first end of the frame to increase the distance between the earphone speaker and the virtual image display module.

As to claim 13, considering figure 9J or 10A, and by assuming aperture as an opening, such as a hole, gap, or slit (Microsoft Bookshelf Basics Dictionary); Jacobson shows that the earphone moves into a gap (top of the keypad) between first and second position, and the display is also moving between two position into a gap, and a linkage (286) connecting the display and the earphone together (col. 13, lines 52-59).

As to claim 15, it is inherent that Jacobson has a wire (electric connection) to connect the display to the battery to provide power to the display.

As to claim 17, Jacobson shows that the linkage includes a pair of elongated members, each having a first end coupled to the earphone module and having a second end coupled to the virtual mage display module such that the second end of each elongated member is pulled in a direction generally away from the first aperture as the virtual image display module is moved from a first, extended position to the second, storage position to slide the earphone from a first, extended position to a second, storage position (col. 13, lines 52-59).

# Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 9 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jacobson in view of Budd et al. (US patent NO. 6,360,104; hereinafter referred to as Budd).

As to claim 9, Jacobson teaches all the limitation of claim 9 except the limitations of having a switch being moved from the right position to the left position to invert the image depicted on the display so that the top the image changes.

However, Budd (figures 1-7) teaches a wireless handset phone with a virtual image display coupled to the wireless handset phone (abstract), wherein a switch is activated to change the orientation of the image on the display (col. 3, lines 18-30).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include the teaching of Budd having an orientation switch to changing the orientation of the image on the image display based on the location of the phone to be incorporated to Jacobson's device so as motivated by Budd, to accommodate each individual based on the preference of each individuals (col. 3, lines 25-30). Furthermore, changing the orientation is essential in such device to allow the user holding the phone with the right hand or the left hand to correctly see the images, or even when the phone is placed on a surface, so as to make the phone user

friendly. Having the orientation changed by moving a switch to the right or to the left is obvious in view of Budd because the reference stated an orientation switch, which means any switch capable of changing the orientation can be applied to the device.

As to claim 14, Jacobson teaches all the limitation of claim 14 except the limitations of having a switch being moved from the right position to the left position to invert the image depicted on the display so that the top the image changes.

However, Budd (figures 1-7) teaches a wireless handset phone with a virtual image display coupled to the wireless handset phone (abstract), wherein a switch is activated to change the orientation of the image on the display (col. 3, lines 18-30).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include the teaching of Budd having an orientation switch to changing the orientation of the image on the image display based on the location of the phone to be incorporated to Jacobson's device so as motivated by Budd, to accommodate each individual based on the preference of each individuals (col. 3, lines 25-30). Furthermore, changing the orientation is essential in such device to allow the user holding the phone with the right hand or the left hand to correctly see the images, or even when the phone is placed on a surface, so as to make the phone user friendly. Having the orientation changed by moving a switch to the right or to the left is obvious in view of Budd because the reference stated an orientation switch, which means any switch capable of changing the orientation can be applied to the device.

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7. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jacobson in view of Kintz et al. (US patent NO. 6,275,714; hereinafter referred to as Kintz).

As can be seen above with respect to claim 16, Jacobson teaches all the limitations of claim 18 except the citation of having a controller responsive to the position of a switch to invert the image depicted on the display so that it accommodates the user using the right eye or the left eye.

However, Kintz (figures 2 and 3A-3C) shows a video phone wherein a switch is used to change the orientation of the images on the display to accommodate the user using the right eye and the user using the left eyes (col. 3, line 60 through col. 4, line 15).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to include the teaching of Kintz changing the orientation of the displayed images to be incorporated to Jacobson's device so as motivated by Kintz, to accommodate both users using the right or left hand (col. 2, lines 13-19), which makes the device user friendly.

### Allowable Subject Matter

8. Claims 10 and 20-24 are allowed.

Response to Arguments

9. Applicant's arguments filed March 21, 2005 have been fully considered but they are not persuasive.

Applicant has amended claim 1, and it has been addressed by the Examiner in the rejection above. With respect to claim 11, Applicant argued that the optic in the cited Jacobson reference is not covered by the back wall, and that the optic is perpendicular to the back wall, and not covered by it. Examiner respectfully disagrees. By considering that the portion 226 in figure 8B is part of the back wall, then it is fair to say that the optic is covered by the back wall.

Applicant argued claim 16 by stating that the housing 286 in Jacobson's device cannot be considered as a linkage, because Jacobson refers to it as housing or docking element. Examiner respectfully submits that there is no reason to preclude the Examiner from considering the element 286 to be called linkage.

#### Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

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than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Amr Awad whose telephone number is (571) 272-7764.

The examiner can normally be reached on Monday through Fridary from 9:30 AM to

6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Sumati Lefkwitz can be reached on (571)272-3638. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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Business Center (EBC) at 866-217-9197 (toll-free).

Amr Awad Primary Examiner Art Unit 2675

A. A.

AMR A. AWAD
PRIMARY EXAMINER